## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 July 2005 (21.07.2005)

**PCT** 

CA

## (10) International Publication Number WO 2005/067251 A1

(51) International Patent Classification<sup>7</sup>: H04L 29/02, 5/22, 12/40, 12/18

(21) International Application Number: PCT/CA2005/000006

(22) International Filing Date: 6 January 2005 (06.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2,454,983 7 January 2004 (07.01.2004)

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE. AG. AL. AM,

AT, AU. AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

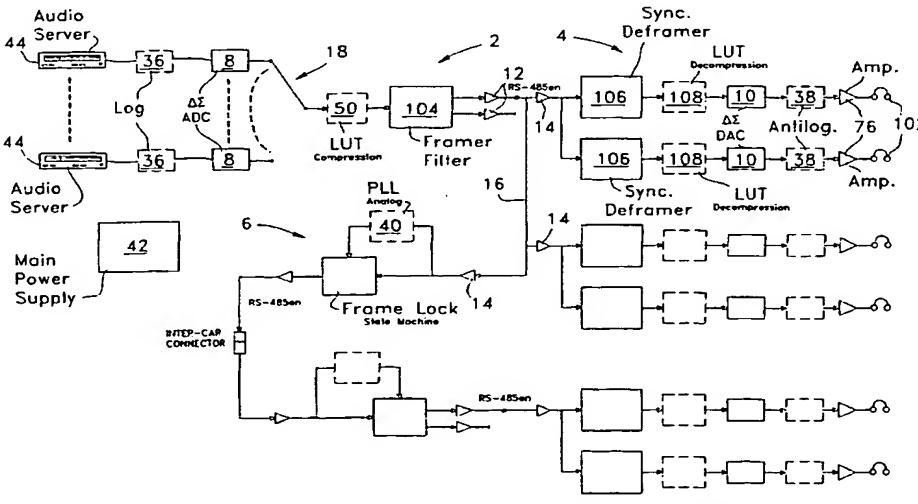
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD FOR HIGH-SPEED APPLICATIONS OVER A SERIAL MULTI-DROP COMMUNICATION NETWORK



(57) Abstract: Broadcasting of high-speed applications over a serial multi-drop communication network is achieved by time-division multiplexing the high-speed applications to produce a data stream, framing the data stream into frames having a header of a size lower than 32 bits and a parity bit, transmitting the frames with pre-emphasis over the serial multi-drop communication network, receiving the frames with de-emphasis from the serial multi-drop communication network, detecting a predetermined bit pattern in the received frames, synchronizing the received frames using an internal clock signal and an external clock signal found within the frames following a phase comparison made after detection of the predetermined bit pattern, and de-framing the synchronized frames into a selected one of the high-speed applications. The system implementing the above process is adapted to broadcast hi-fi audio channels and possibly other types of data to entertainment stations connected to the communication network.



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